JP 08-041118 A

(c) 2003 Thomson Derwent. All rts. reserv. 010444735 WPI Acc No: 1995-346052/199545 A process for preparing bi-modal molecular weight distribution copolymers - of ethylene with alpha-olefin(s), using a multi-site (metallocene/Ziegler) catalyst Patent Assignee: BP CHEM LTD (BRPE) Inventor: MADDOX P J; MCNALLY J P; PRATT D Number of Countries: 020 Number of Patents: 007 Patent Family: Patent No Kind Date Applicat No Kind Date Week EP 676418 A1 19951011 EP 95302125 A 19950328 199545 B A 19951008 CA 2146208 A 19950403 199607 CA 2146208 A 19960213 JP 9582961 A 19950407 199616 JP 8041118 EP 676418 B1 20000726 EP 95302125 A 19950328 200036 DE 69518104 E 20000831 DE 618104 A 19950328 200050 EP 95302125 A 19950328 ES 2150529 T3 20001201 EP 95302125 A 19950328 200105 US 6410659 B1 20020625 US 95410984 A 19950327 200246 US 96657534 A 19960605 US 97904236 A 19970731 Priority Applications (No Type Date): GB 9417364 A 19940826; GB 946855 A 19940407 Cited Patents: EP 447070; EP 586168; US 5032562; US 5182244; WO 8702991; WO 9215619 Patent Details: Patent No Kind Lan Pg Main IPC Filing Notes EP 676418 A1 E 11 C08F-004/642 Designated States (Regional): AT BE CH DE DK ES FR GB GR IE IT LI LU MC NL PT SE C08F-210/02 CA 2146208 A JP 8041118 Α 8 C08F-004/642 EP 676418 B1 E C08F-004/642 Designated States (Regional): AT BE CH DE DK ES FR GB GR IE IT LI LU MC NL PT SE C08F-004/642 Based on patent EP 676418 DE 69518104 E ES 2150529 C08F-004/642 Based on patent EP 676418 T3 C08F-004/64 Cont of application US 95410984 US 6410659 B1 Cont of application US 96657534 Abstract (Basic): EP 676418 A A process for preparing (3-20 C) bimodal molecular wt. distribution copolymers of ethylene with alpha-olefins, where the copolymers have: (a) a comonomer distribution where the comonomer level at the mid-position of the low mol, wt. component is <3 times the level at the mid-position of the high mol.wt. component; and (b) a total average comonomer content of 0.5-20 short chain branches (SCB)/1000 C and characterised by the process being carried out in the presence of a supported multisite catalyst. USE - To prepare copolymers of ethylene with alpha-olefins having a bimodal molecular wt. distribution. ADVANTAGE - Through use of multisite catalysts, copolymer compsns. containing a lower absolute comonomer incorporation level of prior art may be prepared. This can lead to enhanced product properties e.g. higher stiffness for high density tough film. Dwg.0/0 Derwent Class: A17; E12

International Patent Class (Main): C08F-004/64; C08F-004/642; C08F-210/02

International Patent Class (Additional): C08F-004/646; C08F-004/654; C08F-004/76; C08F-210/16